No.



9800102

HHE UNIVERD STAYLES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

Mirginia Agricultural Experiment Station

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN DDUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF S. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Pocahontas'

In Vestimonn Incress. I have hereunto set my hand and caused the seal of the Hunt Unriety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of January, in the year of our Lord two thousand.

Aun marie Thro

Commissioner Plant Variety Protection Office Saricultural Marketina Service tary of Agriculture

14A. Exhibit A: Origin and Breeding History

Genealogy and Breeding Method. Pocahontas, formerly designated VA 93-52-60, was derived as an F₅ head selection made in 1991 from the cross 'Wheeler'*2/C39// 'Saluda' and was approved for release February 1997. The cross was completed in 1985, and the population was advanced using a modified bulk breeding method. Advancement of the population during the F₂ through F₄ generations was made by selecting phenotypically-desirable heads (tapering or strap in shape and clean in appearance) at maturity from plants that were short in plant height. Heads selected in each generation were bulk-threshed and seed were planted in a 225 ft² block in each subsequent fall. The C39 parent originated in England and was selected from the 1982 International Winter Wheat Mildew Nursery as a source of resistance to powdery mildew. The major criterion used in selection of Pocahontas wheat was resistance to powdery mildew (Blumeria graminis).

Population Advancement and Selection of the Variety. The segregating population was advanced from the F_2 to the F_5 generation using a modified bulk breeding method. Spikes were harvested from the population in the F_5 generation, and were threshed individually and planted in single 4 ft headrows. Pocahontas was derived in 1991 from one of the headrows selected for earliness of heading, short plant height, and resistance to powdery mildew. This pure line was evaluated in single 45 ft² observation plots at two locations in 1992, and in replicated preliminary yield plots at three locations in 1993. It was evaluated in state-wide yield tests from 1994 to 1996, and in the Uniform Southern Soft Red Winter Wheat Nursery in 1994 and 1995.

Multiplication and Purification. Within the limits of biological expectation, Pocahontas has remained stable and uniform in composition through seven generations of selfing. In the fall of 1995, seed derived from 144 F₁₀ headrows of Pocahontas was planted in 45 ft² plots at the VCIA Foundation Seed Farm. Each plot was visually assessed for genotype and homogeneity. Prior to harvest, 15 variant plots were removed, and the remaining 129 plots were combine-harvested in bulk to form the Breeder seed. This seed was planted on 19 acres at the Foundation Seed Farm in the fall of 1996 for production of Foundation seed. While Pocahontas is a rather pure variety, a small percentage (0.05%) of plants that are 10 to 12 inches (25-30 cm) taller in height are observed in this variety.

14B. Exhibit B: Novelty Statement

Pocahontas is uniquely different from all known wheat cultivars, but is most similar to its parent Saluda (Tables 1-4). Head emergence (50% of spikes emerged from boot) of Pocahontas is earlier than that of Saluda. Over the past three years, Pocahontas headed 2-3 days earlier than Saluda (L.S.D. 0.05 = 1.0). Pocahontas is resistant to isolates of powdery mildew (Blumeria graminis) with virulence to Pm3a, while Saluda which possess Pm3a is susceptible. Data from Virginia reported as results of the 1994 and 1995 Uniform Southern Soft Red Winter Wheat Nurseries, showed that Pocahontas was resistant to mildew composites with virulence for Pm1, 3a, 3b, 3c, 4a, 5, 6, 7 and 8, while Saluda was susceptible. Therefore, Pocahontas differs from Saluda in genes governing resistance to powdery mildew. Neither the exact number nor identity of genes governing mildew resistance in Pocahontas are known, but from its parentage it potentially could have inherited Pm3a from Saluda as well as Pm2, 4b and 6 from C39. Results of the 1994-95 International Winter Wheat Powdery Mildew Nursery indicate that one of the genes governing mildew resistance in Pocahontas is likely Pm4b as Pocahontas was resistant to isolate Wkin91 which has virulence to Pm1, 2, 3a, 3c, 3e, 5, 6, 7, 16 but not to Pm3b, 4a, 4b, 8, 12, 17. In state-wide yield trials, Pocahontas and Saluda had corresponding mildew scores (0-9 scale where 0=no infection, 9=nearly 100% leaf area infected) of 0 vs 6 in 1996 and 1 vs 4 in 1995 (L.S.D. 0.05 = 1.0). In 1994 trials, Pocahontas had 0% infected leaf area, while Saluda had 40% mildew severity (L.S.D. 0.05 = 5.0). Data from the USDA-ARS Cereal Rust Lab indicates that Pocahontas is resistant to stem rust (Puccinia graminis) races QFBS and RKQS, while Saluda is susceptible.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK AND SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (TRITICUM SPP.)

NAME OF APPLICANTIS	FOR OFFICIAL USE ONLY
Virginia Agricultural Experiment Station	PVPO NUMBER 3000102
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	
Virginia Tech	VARIETY NAME OR TEMPORARY
College of Agriculture and Life Sciences	
104 Hutcheson Hall Blacksburg, VA 24061-0402	Pocahontas
Place the appropriate number that describes the varietal character of this	variety in the boxes below.
Place a zero in first box (c.s. 0 8 9 or 0 9) when number is either	99 or less or 9 or less.
I. KIND:	
1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLIS	4 6=POULARD 7=CLUB
	1 0=POULARD /=CLOB
2. TYPE:	
1 / 1	= SOFT 3 = OTHER (Specify) = HARD
	- 70.00
2 1 = WHITE 2 = RED 3 = OTHER (Specify)	
3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:	
FIRST FLOWERING	LACT SLOWERING
	LAST FLOWERING
4. MATURITY (50% Flowering):	• • • • • • • • • • • • • • • • • • •
0 3 NO. OF DAYS EARLIER THAN	= ARTHUR 2 = SCOUT 3 = CHRIS
() NO. OF DAYS LATER THAN	= LEMHI 5 = NUGAINES 6 = LEEDS
	= Jackson 8 = Pioneer 2691
. PLANT HEIGHT (From soil level to top of head):	•
0 8 6 CM. HIGH	
	en e
0 3 CM. TALLER THAN	= Jackson 8 = Pioneer 2691
	= ARTHUR 2 = SCOUT 3 = CHRIS
0 5 CM. SHORTER THAN 7	
	E CEMAI) = 11001111 -
PLANT COLOR AT BOOTING (See reverse): 7. ANTH	ER COLOR:
2 1= YELLOW GREEN 2= GREEN 3= BLUE GREEN 11	YELLOW 2 = PURPLE
STEM	
, siem	* .
11 17.	y bloom: 1 = ABSENT 2 = PRESENT
Hairiness of last	
L Linconnais of a 12 and a serious and a ser	modes: 1 = HOLLOW 2 = SOLID
	1 - 10000 1 - 10000
NO. OF NODES (Originating from node above ground)	CM. INTERNODE LENGTH BETWEEN FLAG LEAF
AURICLES:	AND LEAF BELOW
AURICLES!	
Aathocyania: 1 = ABSENT 2 = PRESENT 1 Hair	igess: = ABSENT 2 = PRESENT
LEAF:	
Flag leaf at 1 ERECT 2 = RECURVED	
booting stage: 3 = OTHER (Specify): 2 Flag	leaf: 1 = NOT TWISTED 2 = TWISTED
]	
Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT 2 Waxy	bloom of flag leaf sheath: 1 = ABSENT 2 = PRESEN
MM. LEAF WIDTH (First load below flag load)	

II. HEAD:			· · · · · · · · · · · · · · · · · · ·
	Ax 2 = DENSE	1 Shape: 1 = TA 4 = OT	PERING 2 = STRAP 3 = CLAVATE HER (Specify)
2 Awnedness: 1	AWNLESS 2 = APICALLY AWNLETED	3 = AWNLETED 4 = A	WHED 9800102
2 6	1 = WHITE 2 = YELLOW 3 = PINK	4 = RED	
2 Color at maturity	1 5 = BROWN 6 = BLACK 7 = 0		
0 8 CM. LENGT	ГН -	1 0 MM. WIDT	H
12. GLUMES AT MAT	MALTY		
Length: 1 = SHO		131	ROW (CA. J mm.) 2 = MEDIUM (CA. J.5 mm E (CA. 4 mm.)
	NTING 2 = OBLIQUE 3 = ROUNDED UARE 5 = ELEVATED 6 = APICULAT	E Beak: 1 = OBT	USE 2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COL	OR:	14. SEEDLING ANTHO	DCYANIN:
2 1 = WHITE 2	RED 3 = PURPLE	1 = ABSENT	•
15. JUYENILE PLANT	GROWTH HABIT:		
2 1 = PROSTRATE	2 = SEMI-ERECT 3 = EF	RECT	
16. SEED:		· · · · · · · · · · · · · · · · · · ·	
Shape: 1 = OVAT	E 2 = OVAL 3 = ELLIPTICAL	1 Cheek: I = ROUI	NDED 2 = ANGULAR
Brush. 1 = SHORT	2 = MEDIUM 3 = LONG	Brush: I = NOT	COLLARED 2 = COLLARED
Phenol reaction (See instructions):	1 = IVORY 2 = FAWN 3 = LT. BRO	DWN	
	4 = BROWN 5 = BLACK	•	
3 Color: I = WHITE	2 = AMBER 3 = RED 4 = PURPL	E 5 = OTHER (Specity)	
06 MM. LENGTH	0 3 MM, WIDTH	4 0 GM. PER 100	00 SEEDS
17. SEED CREASE:		•	
1 Width: 1 = 60% OR	LESS OF KERNEL 'WINOKA'	1 Depth: 1 = 20%	OR LESS OF KERNEL 'SCOUT'
2 = 80% OR	LESS OF KERNEL 'CHRIS'	2 = 35% (OR LESS OF KERNEL "CHRIS"
3 = NEARLY	AS WIDE AS KERNEL 'LEMHI'	3 = 50 % 0	R LESS OF KERNEL 'LEMHI'
8. DISEASE: (0 = Not Te	sted, 1 = Succeptible, 2 = Resistant)		<u> </u>
1 STEM RUST TNMK	1 LEAF RUST (Reces)	O STRIPE RUST	0 LOOSE SMUT
2 POWDERY MILDEW	O BUNT	1 OTHER (Specify)	heat spindle streak virus
9. INSECT: (0 = Not Tes	red, 1 = Susceptible, 2 = Resistant)		
SAWFLY	APHIO (Brown) 9- 41	GREEN BUG	1 CEREAL LEAF BEETLE
OTHER (Specify) HF	Race L HESSIAN FLY	2 GP 0 A	
_	MARAGES:		
		1 0 2 E	0 0 0
INDICATE WHICH VARI	ETY MOST CLOSELY RESEMBLES THAT S	UBMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	Saluda	Seed size	Saluda
Leaf size	Saludā	Seed shape	Saluda
Leaf color	Saluda	Coleoptile elongation	Saluda
Leaf carriage	Saluda	Seedling pigmentation	Saluda
		· • • · · · · · · · · · · · · · · · · ·	1

INSTRUCTIONS

GENERAL: The following publications may be used as a teference aid for the standardization of terms and procedures for completing this form:

- (a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

14D. Exhibit D: Additional Description of Pocahontas

Since Pocahontas has not been tested in comparison with any of the six cultivars listed in Exhibit C, average data on performance in Virginia from 1994 to 1996 are presented in Tables 1-4. Pocahontas is an early-heading, high yielding, apically-awnleted soft red winter wheat with resistance to powdery mildew. Head emergence is one to two days earlier than the most widely grown early wheats and four days earlier than 'Jackson' and 'FFR 555W' (Tables 2-4). Plant height of Pocahontas is 35 inches, which is similar to FFR 555W and one to two inches shorter than Jackson. Pocahontas has good straw strength, and is superior to Jackson in this aspect. Based on parentage and limited data, winter hardiness of Pocahontas is moderate, being similar to that of Saluda and Jackson. Average grain test weight of Pocahontas is 57.7 lb/bu and is similar to that of Jackson. Pocahontas has very good milling quality with high flour yields, and baking quality is satisfactory (Table 5). Milling quality is superior and baking quality is similar to that of Saluda. Pocahontas has better milling and baking quality than 'Pioneer 2548'.

Pocahontas is resistant to the prevalent strains of powdery mildew in the mid-Atlantic region, and has a moderate level of resistance to leaf and glume blotch (*Stagonospora nodorum*). It is moderately susceptible to the prevalent races of leaf rust (*Puccinia recondita*), and to wheat spindle streak and barley yellow dwarf viruses. While Pocahontas exhibits resistance to five races of stem rust, it is susceptible to the most prevalent race TNMK. Pocahontas is resistant to Hessian fly biotypes GP and E, but is susceptible to the most prevalent biotype L.

Table 1. Three year average yield performance of entries in the Virginia Tech Wheat Tests, 1994, 1995, and 1996.*

Brand/Variety	Blacksburg	Blackstone	Holland	Painter	Warsaw	Orange	Average
				bu/a			
PIONEER 2580-B	89 +	79	76	92 +	88 +	87 +	86 +
POCAHONTAS	87 +	83	78	95 +	82	78	84 +
JACKSON	87 +	79	77	94 +	81	80	83 +
FFR555W-B	85 +	81	76	86	77	83	82 +
PIONEER 2684-B	85 +	78	72	90	83	78	81
MADISON	82	74	70	83	83	70 -	77 -
COKER 9803	79	76	71	82	72 -	77	76 -
SALUDA	78	67 -	69 -	77 -	69 -	80	74 -
LSD (0.05)	4	8	6	5	6	5	2
Location Average	81	78	75	86	81	80	80
Statewide Average	80						

^{*} A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Table 2. Summary of performance of entries in the Virginia Tech Wheat Test, 1995-96.*

	•	Test	Date			Powdery	Leaf	Leaf□	Glume□
Brand/Variety	Yield	Weight	Headed	Height	Lodging**	Mildew	Rust	Blotch	Blotch
	(Bu/A)	(Lb)	(Mar 31+)	(In)	(0.2-10)	(0-9)☆	(0-9)	(0-9)	(0-9)
	(6)	(6)	(4)	(3)	(6)	(2)	(1)	(2)	(1)
POCAHONTAS	89 +	56.9	35 -	33 -	2.9	0 -	0 -	2 -	2 -
JACKSON-B	87 +	57.1 +	37 +	34	5.7 ±	1 -	0 -	3	2 -
PIONEER 2580-B	85	57.0	35 -	34	1.6 -	1 -	0 -	3	2 -
PIONEER 2684-B	84	58.8 +	35 -	34	2.0 -	1 -	2	3	2 -
FFR555W-B	84	55.8 -	38 +	33 -	2.3	5 +	7 +	3	6 +
MADISON	82	56.9	36	36 +	2.5	2	3 +	5 +	2 -
COKER 9803	78 -	58.4 +	35 -	· 32 -	4.3 +	4 +	3 +	4 +	4 +
SALUDA	75 -	57.6 +	37 +	33 -	3.4	6 +	3 +	3	3
LSD (0.05)	4	0.6	1	1	1.0	1	1	1	1
Test Average	82	56.5	36	34	3.2	2	2	3	3

^{*} The number in parentheses below column headings indicates the number or locations on which data are based.

A plus or minus sign indicates a performance significantly above or below the test average, respectively.

^{**} Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat lying totally flat.

[☆] All 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

^{☐ &}lt;u>Septoria</u> leaf and glume blotch in these cases were caused by <u>Stagonospora nodorum</u>.

Table 3. Summary of performance of entries in the Virginia Tech Wheat Test, 1994-95.*

				***************************************				Septoria		
		Test	Date			Powdery	Leaf	Leaf	Glume	BYD
Brand/Variety	Yield	Weight	Headed	Height	Lodging**	Mildew	Rust	Blotch	Blotch	Virus
	(Bu/A)	(Lb)	(Mar 31+)	(In)	(0.2-10)	(0 - 9) [♦]	(0-9)	(0-9)	(0-9)	(0-9)
	(6)	(6)	(4)	(5)	(2)	(3)	(3)	(1)	(1)	(3)
PIONEER 2580-B	89 +	56.0	27 -	33 -	1.2	1	3	5 +	3 +	4
JACKSON	84 +	57.4	29	36 +	3.5 +	1	3	2 -	1 -	4
PIONEER 2684-B	82 +	58.2 +	27 -	33 -	0.3 -	1	4 +	2 -	1 -	4
POCAHONTAS	78	57.9 +	26 -	34	0.9	1	4 +	4 +	2	5 +
FFR555W-B	76	56.1	31 +	35 +	0.7	2 +	5 +	2 -	2	4
COKER 9803	76	58.3 +	28 -	33 -	2.7	1	3	4 +	2	4
MADISON	76	56.7	27 -	35 +	1.2	2 +	5 +	2 -	2	3 -
SALUDA-B	73	57.9 +	29	34	1.3	4 +	4 +	3	2	5 +
LSD (0.05)	6	0.9	1	1	1.4	1	1	1	1	1
Test Average	75	56.7	29	34	1.8	1	3	3	2	4

^{*} The number in parentheses below column headings indicates the number of locations on which data are based. A plus or minus sign indicates a performance significantly above or below the test average, respectively.

^{**}Belgian Lodging Scale = Area x Intensity x 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat lying totally flat.

^{*} The 0-9 ratings indicate relative disease intensity where 0=none and 9=total plant infection.

Table 4. Summary of performance of entries in the Virginia Tech Wheat Test, 1993-94.*

		Test	Date			Leaf	Powdery	Soil	Leaf
Brand/Variety	Yield	Weight	Headed	Height	Lodging	Rust	Mildew	Virus	Septoria
	(Bu/A)	(Lb)	(Mar 31+)	(In)	(%)	(%)	(%)	(0-5)	(0-9)
	(7)	(7)	(3)	(3)	(4)	(2)	(2)	(1)	(2)
COKER 9803	73 -	59.9 +	32 -	34 -	1	4	21 +	0	2 -
FFR555W-B	82 +	57.0 -	35 +	37	1	4	16 +	0	2 -
JACKSON	84 +	59.2 +	34 +	38 +	4	4	15 +	0	2 -
MADISON	79	57.4 -	32 -	38 +	1	0	20 +	0	3
PIONEER 2580	83 +	57.7 -	32 -	37	0	1	4 -	0	2 -
PIONEER 2684	78	59.7 +	31 -	37	1	1	11	0	1 -
SALUDA-B	81	59.6 +	33	37	2	3	24 +	2	3
POCAHONTAS	88 +	58.4	30 -	37	6	4	0 -	0	2 -
LSD (0.05)	3	0.5	1	1	5	4	5	2	1 .
Test Average	79	58.5	33	37	2	3	10	1	3

^{*} The number in parentheses below column headings indicates the number of locations on which data are based. A plus or minus sign indicates a performance significantly above or below the test average, respectively.

Flour Yield

South

18.01

North

18.36

Table 5. Milling and Baking Quality of Pocahontas Wheat.

Milling Score

North South

Quality Trait:

Test Region:

Coker 9835

67.8

62.8

1993-94 Uniform Southern Wheat Nursery

North

Baking Score

South

Pocahontas	105.6	102.8	107.0	90.1	73.7	73.1
Florida 302	107.0	102.4	109.8	98.1	73.4	72.3
Saluda	104.1	96.0	104.4	92.2	71.6	71.3
Coker 9835	102.5	97.6	97.7	98.2	71.3	70.1
Quality Trait:	Softnes	ss Score	AWRC S	Score	Cookie Dia	ameter
Quality Trait: Test Region:	Softnes North	ss Score South	AWRC S	Score South	Cookie Dia	ameter South
•			-			_
Test Region:	North	South	North	South	North	South
Test Region: Pocahontas	North 59.4	South 54.9	North 56.4	South 57.0	North 17.99	South 17.31

60.2

60.0

Table 5 con't. Milling and Baking Quality of Pocahontas Wheat.

1994-95 Uniform Eastern Wheat Nursery

Quality Trait:	Millin	g Score		Baking	Baking Score			Flour Yield		
Test Region:	North	Atlantic	South	North	Atlantic	South	North	Atlantic	South	
Pocahontas	101.0	100.9	100.0	86.5	84.6	80.3	72.9	73.1	72.6	
Cardinal	100.1	93.5	99.0	92.0	77.9	89.3	71.6	70.0	71.3	
Caldwell	101.3	104.1	94.6	97.3	98.4	104.6	71.1	71.7	69.7	
Pioneer 2548	92.5	88.5	91.8	75.4	60.0	74.8	69.2	68.6	69.3	
e e e e e e e e e e e e e e e e e e e										
Quality Trait:	Softne	ss Score		AWRC	AWRC Score			Cookie Diameter		
Test Region:	North	Atlantic	South	North	Atlantic	South	North	Atlantic	South	
Pocahontas	54.5	54.3	54.5	54.7	53.6	54.7	17.98	17.75	17.68	
Cardinal	57.8	58.5	59.8	51.8	54.2	52.7	17.81	17.33	17.63	
Caldwell	62.0	64.4	65.4	52.7	54.0	53.4	17.92	18.04	18.22	
Pioneer 2548	59.6	58.1	60.1	56.0	57.0	55.4	17.40	16.85	17.27	

14E. Exhibit E: Basis of Applicant's Ownership

The owner of Pocahontas wheat is Virginia Tech, of which the Virginia Agricultural Experiment Station is a part. Employees charged with developing this new variety as a condition of their employment understand that ownership resides with Virginia Tech pursuant to university policy on intellectual property.